

SYSTEM **P**LANNING & **A**NALYSIS **R**EPORT

S-65

T. H. 10
EGRET BOULEVARD TO
UNIVERSITY AVE.

S. P. 0214-01

OCTOBER, 1971

PREPARED BY
OFFICE OF SYSTEM PLANNING



**MINNESOTA
DEPARTMENT
OF HIGHWAYS**



STATE OF MINNESOTA

Office Memorandum

 DEPARTMENT HIGHWAY - Statewide Planning -
 Room 807 - Extension 3158

 TO : Paul G. Velz
 Road Design Engineer

DATE: October 26, 1971

 FROM : Morris Gildemeister, Chief
 Statewide Planning Section

 SUBJECT: T.H. 10
 Egret Blvd. to University Ave.
 S.P. 0214-01
 System Planning and Analysis Report S-65

Estimated 1985 ADT and heavy commercial ADT traffic volumes for T.H. 10 from Egret Blvd. to University Ave. in Anoka County are enclosed.

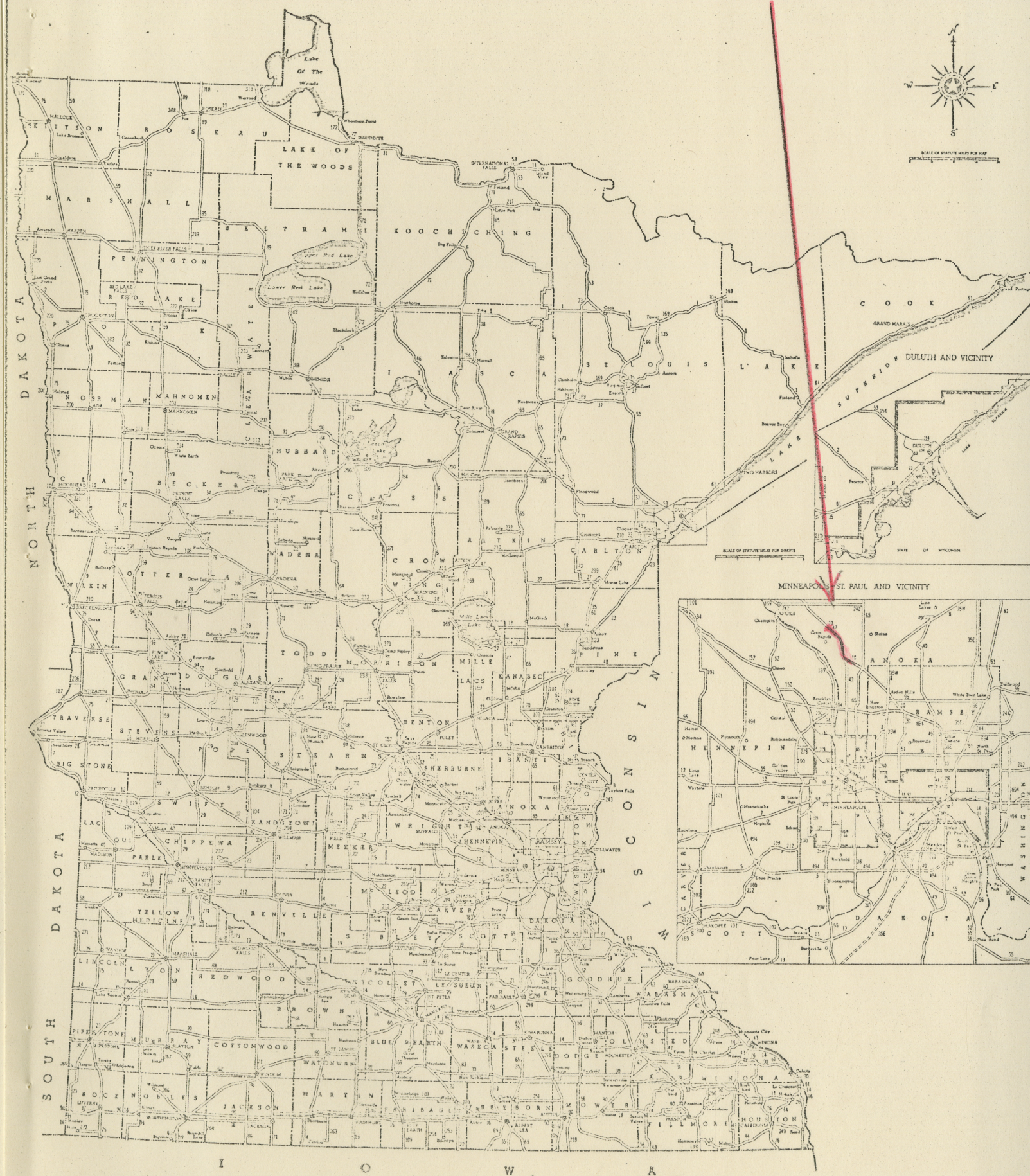
Four proposed design alternates are shown with their respective heavy commercial vehicle type distribution tables.

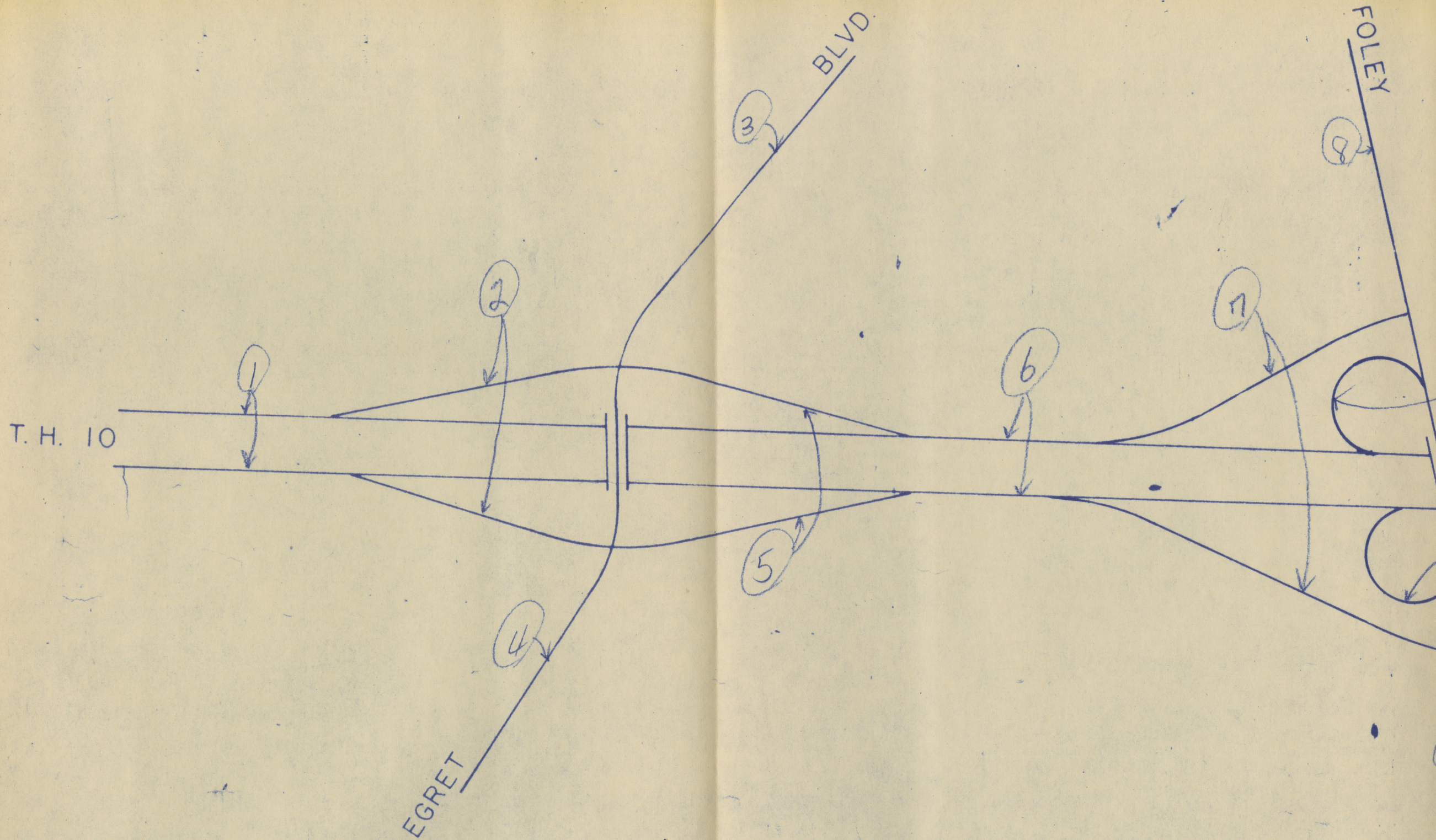
This analysis was requested by R. D. McAtee for D. W. Brown. Basic data, method, and assumption used to prepare this are presented at the end of the report.

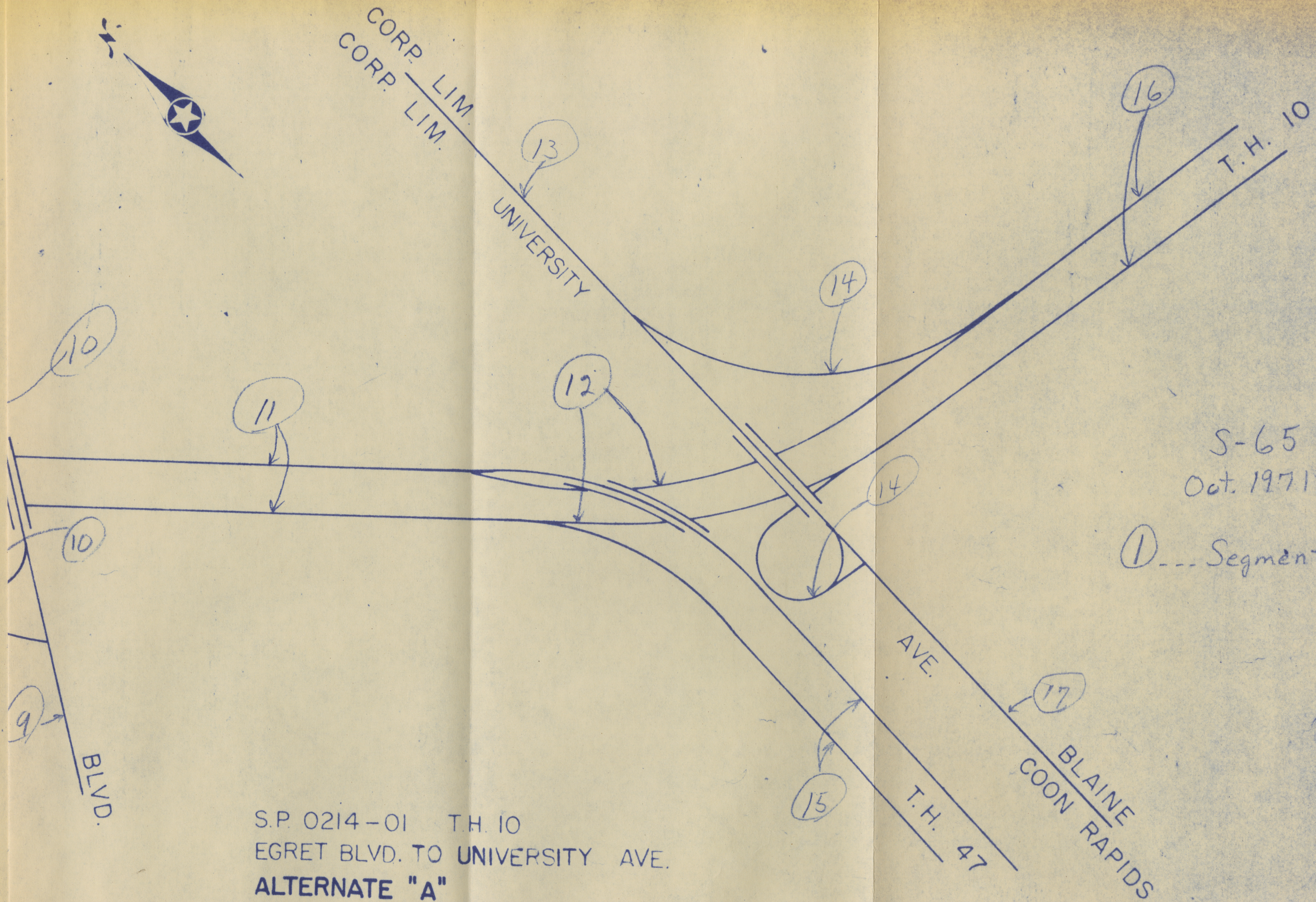
 Morris Gildemeister, Chief
 Statewide Planning Section

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 STATE OF MINNESOTA
 DEPARTMENT OF HIGHWAYS
 WORK MAP

 Project Location
 SP 0214-01






S.P. 0214-01 T.H. 10
EGRET BLVD. TO UNIVERSITY AVE.
ALTERNATE "A"

S-65
Oct. 1971

①--- Segment Number

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 1 OF 2

FOR

T.H. 10 S.P. 0214-01 LENGTH MILES
COUNTY Anoka LOCATION Egret Blvd. to University Ave.
Alternate A

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	17666	760	2758	1710	2187	19097	854	4097	2568	2579	20819
1	401	24	87	56	72	452	27	120	82	70	501
2	243	4	19	12	16	256	4	28	17	20	266
3	44	4	9	5	3	40	5	11	6	4	42
4	60	1	4	3	2	58	2	8	4	5	61
5	101	1	3	2	2	99	2	11	5	8	103
6	85	6	20	12	18	98	6	25	18	14	108
TOTAL ADT	18600	800	2900	1800	2300	20100	900	4300	2700	2700	21900
TOTAL H. COMM. ADT	934	40	142	90	113	1003	46	203	132	121	1081
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 2 OF 2

FOR

T.H. 10 S.P. 0214-01 LENGTH MILES
COUNTY Anoka LOCATION Egret Blvd. to University Ave.
Alternate A

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

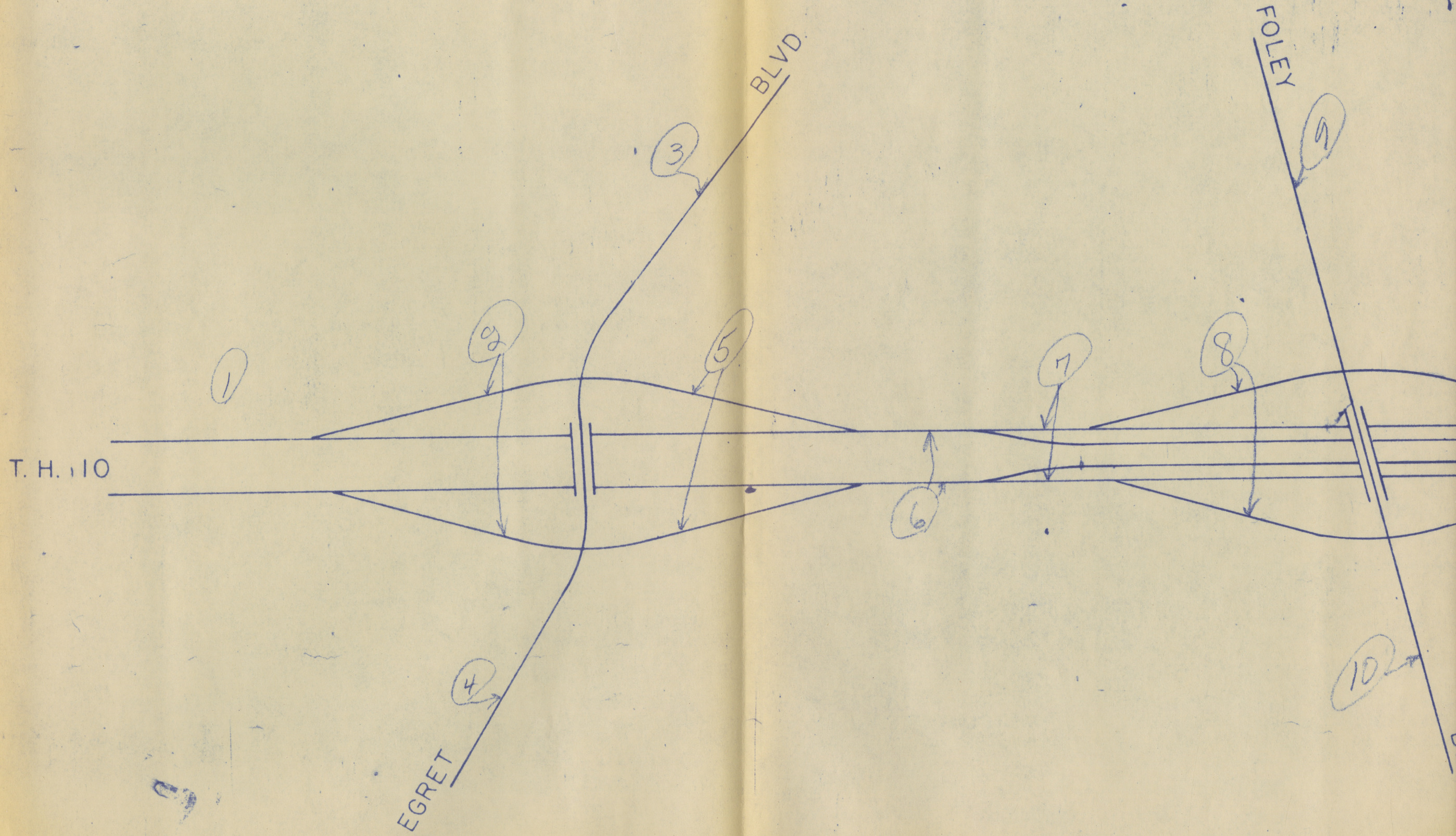
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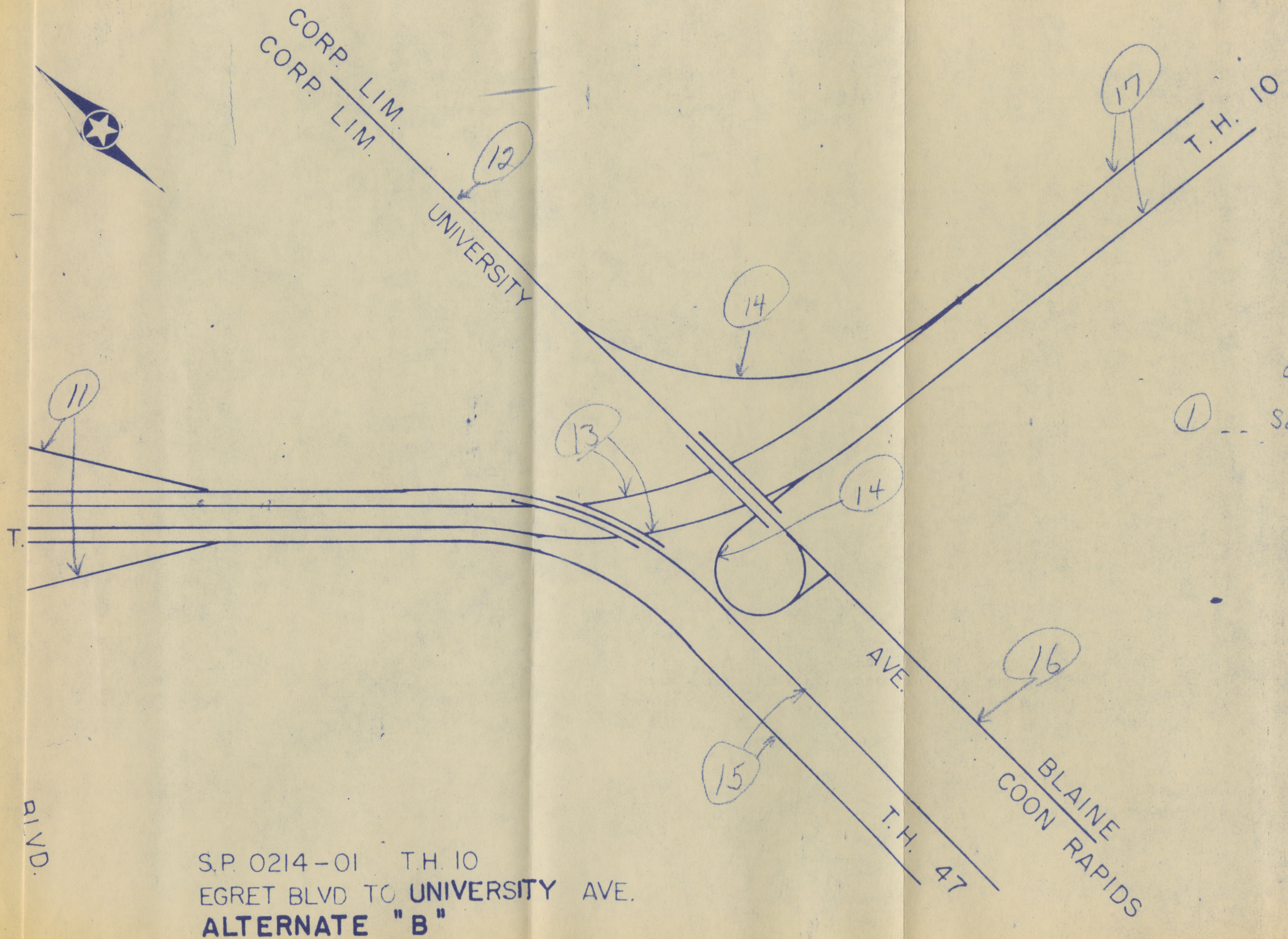
TOTAL ADT ON SEGMENTS 12 THROUGH 17 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17					
0	12981	10055	6603	7838	19582	3836					
1	261	290	193	240	454	108					
2	203	39	28	63	231	12					
3	36	10	6	6	42	4					
4	59	11	7	2	66	4					
5	101	21	15	2	116	8					
6	59	74	48	49	109	28					
TOTAL ADT	13700	10500	6900	8200	20600	4000					
TOTAL H. COMM. ADT	719	445	297	362	1018	164					
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS





S-65
Oct. 1971

① -- Segment Number

S.P. 0214-01 T.H. 10
EGRET BLVD TO UNIVERSITY AVE.
ALTERNATE "B"

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 1 OF 2

FOR

T.H. 10 S.P. 0214-01 LENGTH MILES
COUNTY Anoka LOCATION Egret Blvd. to University Ave.
Alternate B

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	17666	760	2473	2093	2284	19194	7738	854	2859	2189	955
1	401	24	77	65	75	455	238	27	84	70	29
2	243	4	16	14	17	257	59	4	20	14	8
3	44	4	10	8	4	41	10	5	7	5	1
4	60	1	4	3	1	57	3	2	6	3	1
5	101	1	3	3	1	98	3	2	7	4	1
6	85	6	17	14	18	98	49	6	17	15	6
TOTAL ADT	18600	800	2600	2200	2400	20200	8100	900	3000	2300	1000
TOTAL H. COMM. ADT	934	40	127	107	116	1006	362	46	141	111	45
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 2 OF 2

FOR

T.H. 10 S.P. 0214-01 LENGTH MILES
COUNTY Anoka LOCATION Egret Blvd. to University Ave.
Alternate B

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

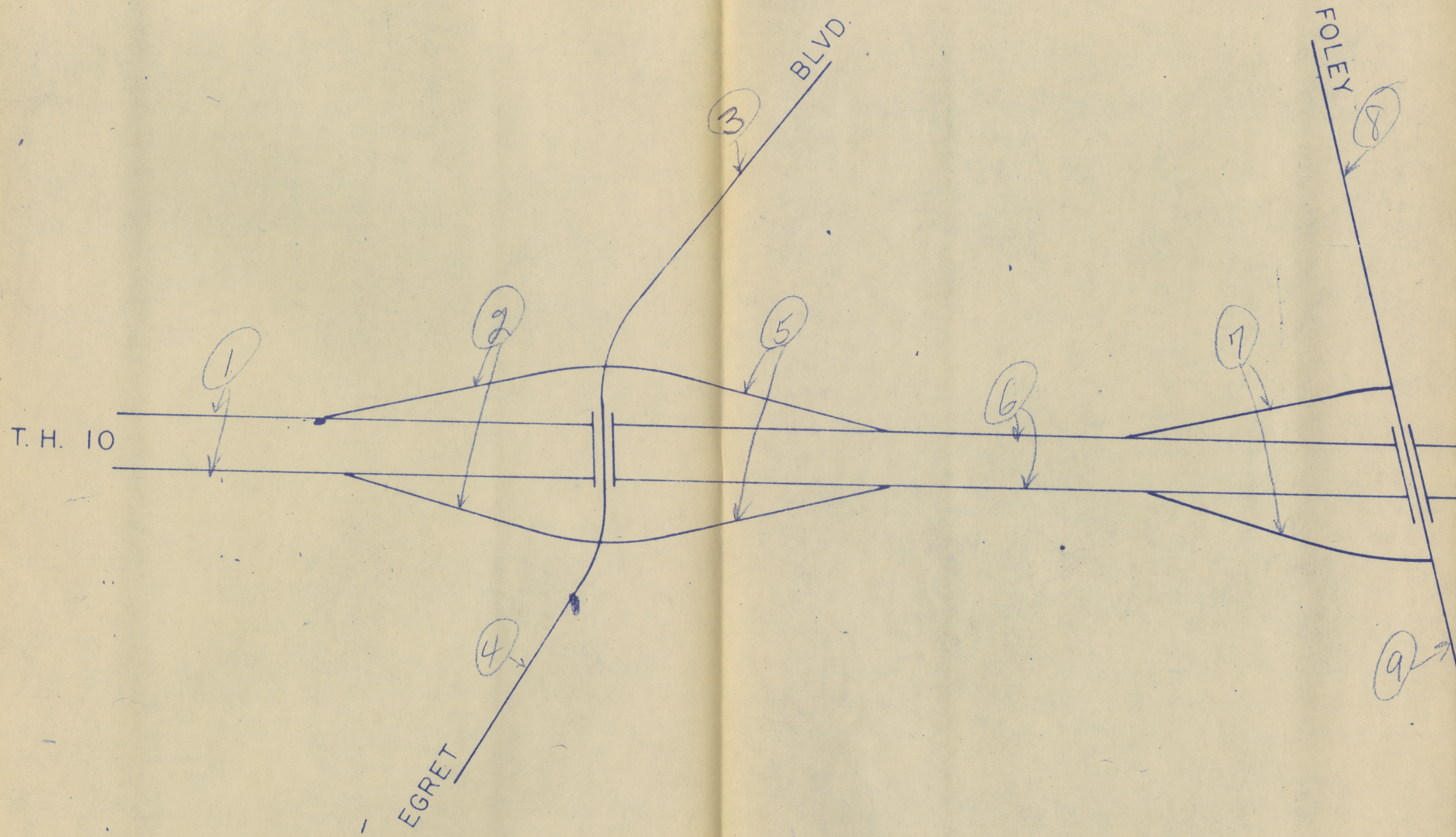
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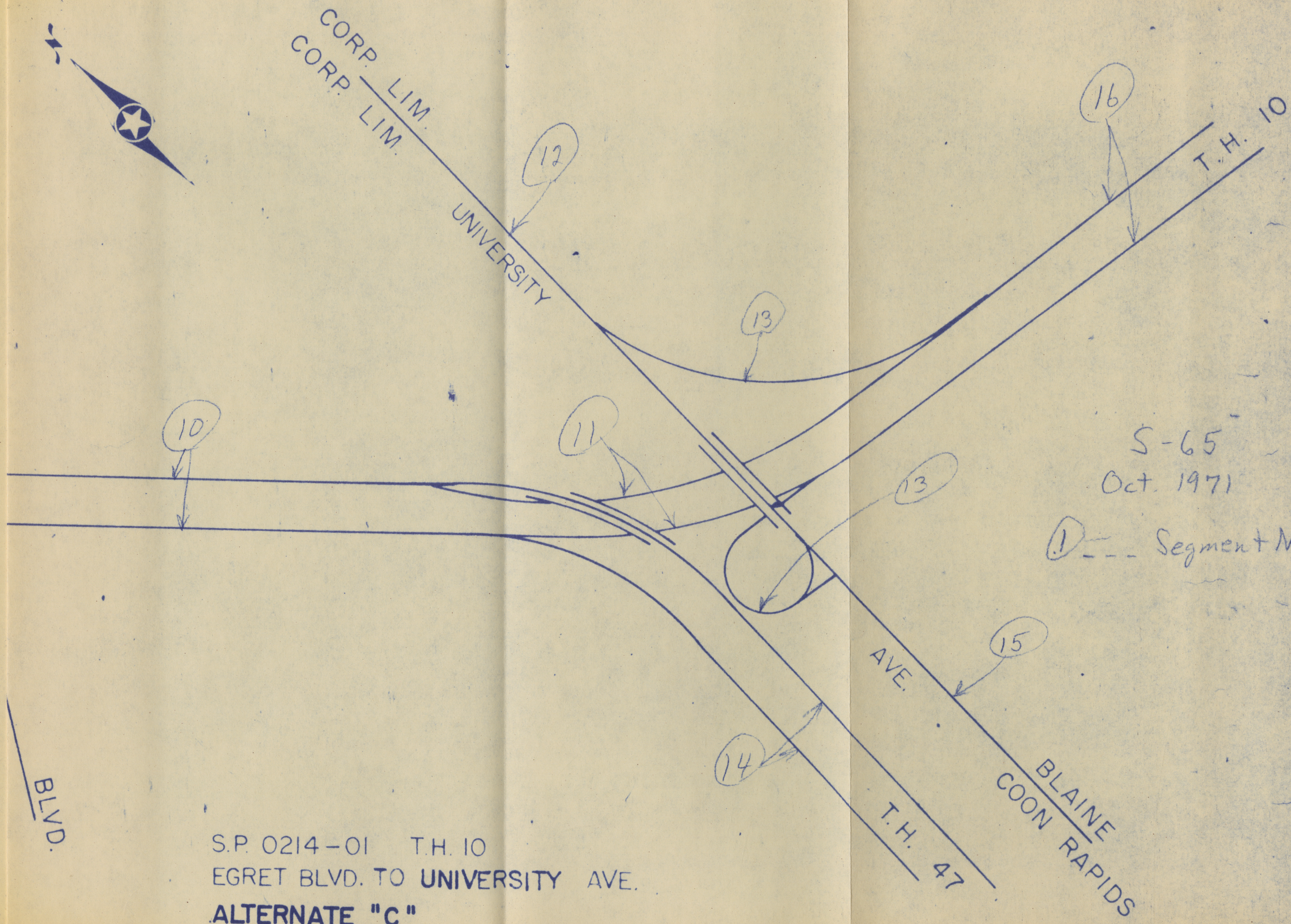
TOTAL ADT ON SEGMENTS 12 THROUGH 17 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17					
0	11587	11449	8133	7838	3836	19582					
1	334	216	238	240	108	454					
2	45	196	35	63	12	231					
3	12	34	8	6	4	42					
4	13	57	9	2	4	66					
5	24	98	18	2	8	116					
6	85	50	59	49	28	109					
TOTAL ADT	12100	12100	8500	8200	4000	20600					
TOTAL H. COMM. ADT	513	651	367	362	164	1018					
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS





S.P. 0214-01 T.H. 10
EGRET BLVD. TO UNIVERSITY AVE.
ALTERNATE "C"

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 1 OF 2

FOR

T.H. 10 S.P. 0214-01 LENGTH MILES
COUNTY Anoka LOCATION Egret Blvd. to University Ave.
Alternate C

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	17666	760	3140	2375	3235	20141	854	2193	1904	19287	11449
1	401	24	99	77	106	483	27	64	62	456	216
2	243	4	21	17	24	263	4	15	12	259	196
3	44	4	10	7	5	45	5	5	4	40	34
4	60	1	4	4	2	61	2	5	2	59	57
5	101	1	3	3	2	102	2	5	3	100	98
6	85	6	23	17	26	105	6	13	13	99	50
TOTAL ADT	18600	800	3300	2500	3400	21200	900	2300	2000	20300	12100
TOTAL H. COMM. ADT	934	40	160	125	165	1059	46	107	96	1013	651
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 2 OF 2

FOR

T.H. 10 S.P. 0214-01 LENGTH MILES
COUNTY Anoka LOCATION Egret Blvd. to University Ave.
Alternate C

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

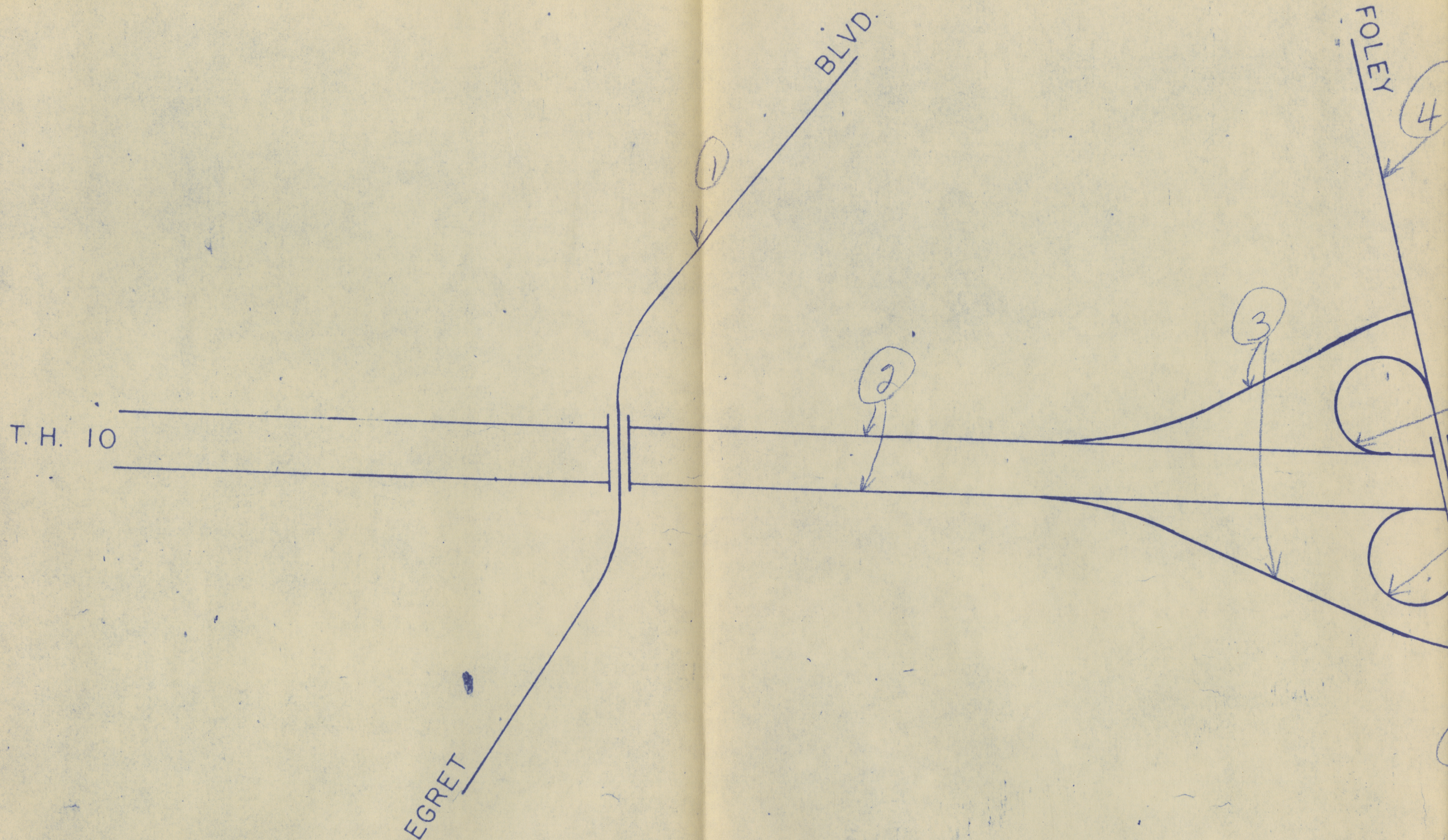
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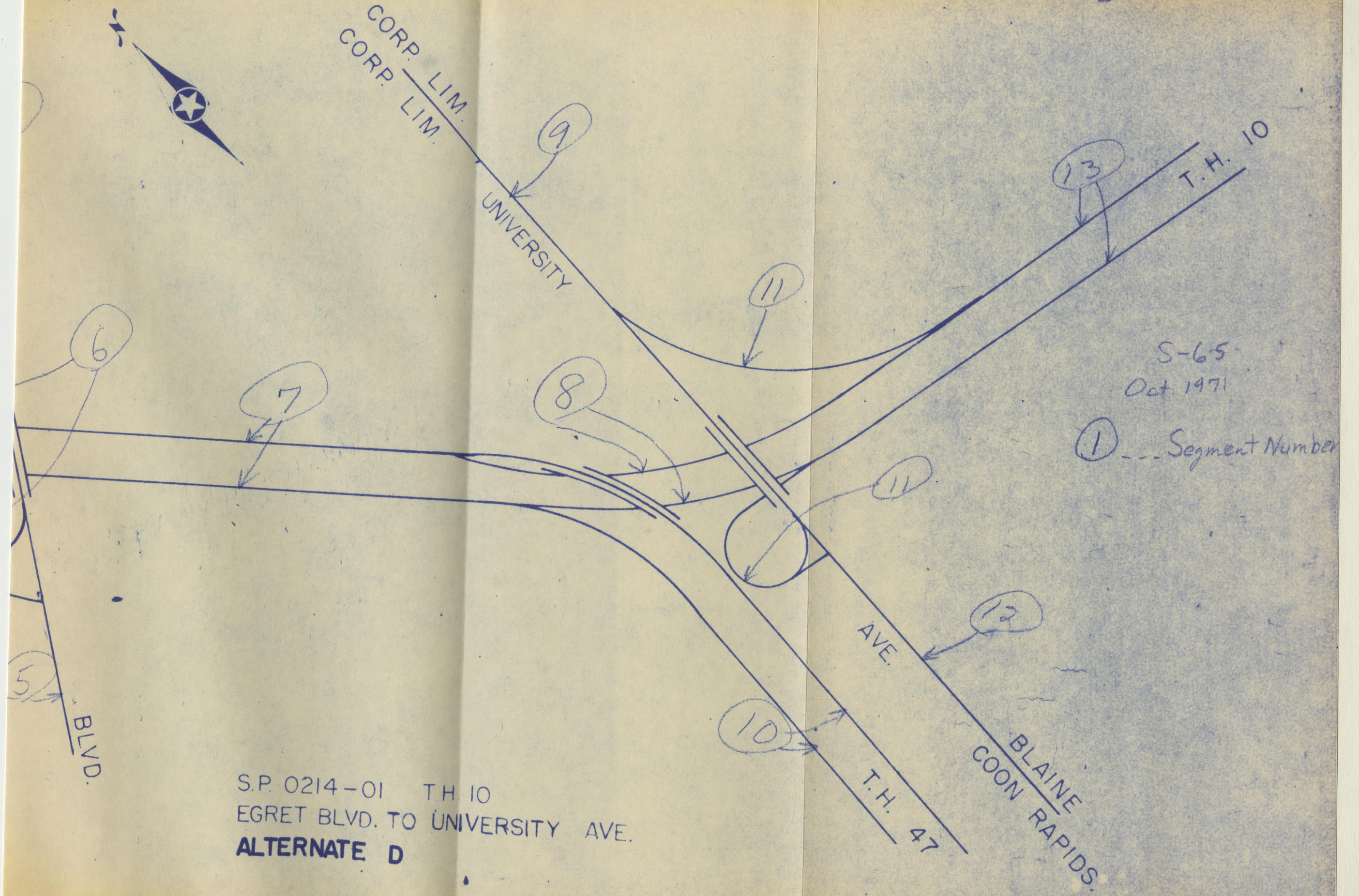
TOTAL ADT ON SEGMENTS 12 THROUGH 16 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	12	13	14	15	16						
0	11587	8133	7838	3836	19582						
1	334	238	240	108	454						
2	45	35	63	12	231						
3	12	8	6	4	42						
4	13	9	2	4	66						
5	24	18	2	8	116						
6	85	59	49	28	109						
TOTAL ADT	12100	8500	8200	4000	20600						
TOTAL H. COMM. ADT	513	366	362	164	1018						
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS





S-65
Oct 1971

① --- Segment Number

S.P. 0214-01 T.H. 10
EGRET BLVD. TO UNIVERSITY AVE.
ALTERNATE D

M. 6/6

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 1 OF 2

FOR

T.H. 10 S.P. 0214-01 LENGTH _____ MILESCOUNTY Anoka LOCATION Egret Blvd. to University Ave.

Alternate D

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS

DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	761	17666	1614	6094	3519	4766	20819	12981	10055	7838	6603
1	24	401	51	183	114	142	501	261	290	240	193
2	5	243	8	42	24	36	256	203	39	63	28
3	2	44	9	18	9	7	42	36	10	6	6
4	1	60	3	11	6	7	61	59	11	2	7
5	1	101	3	13	7	10	103	101	21	2	15
6	6	85	12	39	24	32	108	59	74	49	48
TOTAL ADT	800	18600	1700	6400	3700	5000	21900	13700	10500	8200	6900
TOTAL H. COMM. ADT	39	934	86	306	181	234	1081	719	445	362	297
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1985 PART 2 OF 2

FOR

T.H. 10 S.P. 0214-01 LENGTH _____ MILESCOUNTY Anoka LOCATION Egret Blvd. to University Ave.

Alternate D

BASED ON

1985 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 13 AS

DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	12	13									
0	3836	19582									
1	108	454									
2	12	231									
3	4	42									
4	4	66									
5	8	116									
6	28	109									
TOTAL ADT	4000	20600									
TOTAL H. COMM. ADT	164	1018									
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

Basic Data, Method and Assumptions

The 1985 ADT and DHV are presented in SPAR M-29 transmitted August 4, 1970. This report assumes a completed Interstate 94.

The total heavy commercial ADT agrees with the System 14 truck study. Appropriate vehicle classification counts were basic data for distributing the total HCADT by vehicle type on this project location.

1990 volumes for the report may be obtained by expanding 1985 ADT by a factor of 1.15.